

**APPLICATION  
FOR  
UNITED STATES LETTERS PATENT**

**TITLE: UNAUTHORIZED ACCESS AVOIDING METHOD IN  
INTELLIGENT INTERCONNECTING DEVICE, UNAUTHORIZED  
ACCESS AVOIDING PROGRAM FOR INTELLIGENT INTER-  
CONNECTING DEVICE, RECORDING MEDIUM IN WHICH  
UNAUTHORIZED ACCESS AVOIDING PROGRAM FOR  
INTELLIGENT INTERCONNECTING DEVICE IS RECORDED,  
INTELLIGENT INTERCONNECTING DEVICE, AND LAN  
SYSTEM**

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PATENT TRADEMARK OFFICE

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BACKGROUND OF THE INVENTION

10 Field of the Invention

[0001] The present invention relates to a  
interconnecting device having a packet repeating  
function and the like in what is called a LAN (Local  
Area Network) system, and more particularly to an

15 unauthorized access avoiding method, an  
unauthorized access avoiding program, a recording  
medium in which an unauthorized access avoiding  
program is recorded, an intelligent  
interconnecting device, and a LAN system which  
20 realize security improvement and so on in what is  
known as an intelligent interconnecting device  
whose operation is controllable from outside.

Description of the Related Art

[0002] What is known as a packet interconnecting  
25 device which is represented by what is called a hub

and a router is an apparatus indispensable for configuring a LAN system and various kinds of packet interconnecting devices having various functions in addition to basic functions have been proposed according to forms and so on of LAN systems (for example, refer to Japanese Patent Laid-open No. Hei 5-327720). In some of these interconnecting devices, what is known as management functions such as monitoring operational status and setting operation conditions of the interconnecting devices particularly through communication with external computers are provided and these interconnecting devices are generally called intelligent interconnecting devices.

In a conventional LAN system to which this intelligent interconnecting device is applied to configure the LAN system, an IP address is given to the intelligent interconnecting device and what is called TCP/IP communication processing is performed for processing communication between a managing computer and the intelligent interconnecting device so that setting, changing, and the like of various operation conditions and so on of the intelligent interconnecting device are